1846MNRAS...7..101.

BRORSEN'S *Second Comet.*

OBSERVATIONS.

KÖNIGSBERG. Heliometer. (M. Wichmann.)

	Königsberg M.T.	R.A.	Dec.
	h m s	° ′ ″	° ′ ″
1846. May 1	13 14 43	321 44 8·6	+26 44 57·1.

HAMBURG. (M. Rumker.)

Date.	Hamburg M.T.	R.A.	Dec.	No. of Obs.
1846.	h m s	° ′ ″	° ′ ″	
May 8	11 32 48·8	11 10 30·3	66 15 44·2	5
9	10 12 54·0	26 39 36·3	68 23 47·1	2
	10 38 33·6	26 58 2·5	68 25 8·2	Merid. Circle.
	11 41 21·8	27 42 38·0	68 28 22·6	3
12	10 44 2·1	69 8 18·7	66 0 48·0	9
	12 18 47·9	69 46 38·9	65 52 34·6	10
	13 19 4·6	70 9 47·9	65 47 15·1	Merid. Circle.
13	10 35 4·9	77 22 54·3	63 49 20·3	9
	13 47 40·3	78 19 2·4 ::	63 31 3·6	Merid. Circle.
14	10 32 6·1	83 16 2·6	61 32 46·8	7
15	10 30 57·3	88 7 10·0	59 20 10·5	7
	12 10 26·9	88 23 59·3	59 11 12·3	5
18	11 40 52·7	96 38 44·9	53 29 31·6	1 ::
19	10 27 15·8	98 17 16·0	51 58 17·2	10
21	10 23 35·1	100 50 54·5	49 9 5·7	15
22	12 41 55·7	101 52 17·8	47 47 53·6	13
23	11 26 57·2	102 36 5·8	46 43 25·2	4
24	10 41 36·6	103 12 43·4	45 42 30·6	6
26	10 33 33·5	104 9 36·0	43 49 51·6	10
28	11 34 34·0	104 47 17·2	42 9 39·2	8
30	11 12 47·0	105 9 19·2	40 43 54·2	17
31	10 24 20·4	105 15 43·2	40 5 35·5	19
June 1	10 27 32·5	105 20 5·6	39 27 36·6	19
2	10 39 20·6	105 22 18·7	38 51 25·4	10
3	10 49 20·4	105 22 17·9	38 16 59·7	12
4	10 50 55·2	105 20 47·8	37 44 12·8	10
5	10 38 36·0	105 17 36·0	37 13 8·9	2
6	10 42 22·6	105 13 37·3	36 42 55·4	10

1846MNRAS...7..101.

BERLIN. (Prof. Encke.)

	Berlin M.T.	R.A.	Dec.
	h m s	° ′ ″	° ′ ″
1846. May 4	11 23 28·5	332 21 59·1	+44 15 19·1
	12 25 58·2	332 35 24·6	44 32 24·7
7	9 48 22·2	356 11 40·7	61 53 9·6
9	11 29 32·2	27 24 39·2	68 27 12·5
12	12 2 53·0	69 35 22·7	65 55 15·1
13	12 12 49·8	77 48 14·9	63 41 42·5

The comet is said to have been visible with the naked eye at Berlin on May 4.

STARFIELD. 20-foot reflector. (W. Lassell, Esq.)

	Starfield Sid. T.			
	h m s		m s	′ ″
1846. May 14	14 32 30·5	Comet precedes *a*	0 45·28	
	14 17 40·7	" South of *a*		3 15·6
17	15 53 26·6	Comet precedes *b*	1 1·63	
	16 11 31·1	" North of *b*		9 56·9
20	15 32 6·2	Comet precedes *c*	3 23·92	
	15 32 48·5	" North of *c*		8 57·5
27	15 38 0·8	Comet follows *d*	0 2·4	
	15 35 35·2	" South of *d*		0 36·9
28	15 51 28·7	Comet precedes *e*	1 46·37	
	15 44 57·8	" South of *e*		0 4·01
29	15 25 33·4	Comet precedes *f*	1 47·87	
	15 16 18·1	" South of *f*		2 44·7
30	15 47 20·5	Comet follows *g*	0 15·3	
	15 57 5·6	" North of *g*		6 12·6
June 1	15 3 23·1	Comet follows 2338	0 16·50	
	14 45 23·8	" South of 2338		6 52·1
4	15 25 48·5	Comet follows *h*	3 10·68	
	15 22 40·9	" North of *h*		2 53·4

The approximate apparent places of the stars compared are,

	Mag.	R.A.	N.P.D.	Compared with
		h m s	° ′ ″	
a	9	5 36 2·02	28 30 8·5	1777 B.A.C.
b	6·7	6 19 37	35 2 44	Instrumental.
c	7	6 42 39·31	39 46 28·3	2334 B.A.C.
d	9·10	6 58 1	47 2 24	Instrumental.
e	8·9	7 0 58	47 51 12	Instrumental; southernmost of three in the field.
f	9	7 1 48	48 32 6	Instrumental.
g	9·10	7 0 23	49 23 22	Instrumental; circumstances bad.
2338	5	7 1 4·28	50 26 11·8	Taken from B.A.C.
h	6·7	6 58 12	52 19 11	Instrumental.

1846MNRAS...7..103R

No correction for parallax or refraction has been applied to those differences which are the *observed* differences.

On May 14, the comet was pretty bright, and had a point of greatest condensation, but no stellar nucleus; scarcely any tail, but the nebulosity seemed to extend a little towards the south-preceding quadrant at an angle of about 30° with the parallel of daily motion.

On May 17, the comet just visible to the naked eye when directed to its exact place.

HAVERHILL. (W. W. Boreham, Esq.)

	Haverhill Sid. T. h m s		m s	′ ″
May 17	14 23 55·7	Comet precedes 2107 B.A.C.	3 56·6	
		South of 2107		12 6·14
20	14 18 42	Comet follows *a*	4 32·8	
		South of *a*		4 22·95

	Mag.	R.A.	Dec.
a	7	6h 34m 57s	+ 50° 29′ 23″ nearly.

Haverhill Observatory, latitude 52° 5′ 22″·8 North,
longitude 0h 1m 46s·4 East.

Apparent places of the stars in the path of Brorsen's Second Comet, computed from the zones of Argelander, Bessel, and Lalande, or observed by M. Rumker, Director of the Observatory of Hamburg.

Date.	Apparent R.A.	Apparent Dec.	Date.	Apparent R.A.	Apparent Dec.
1846.	h m s	° ′ ″	1846.	h m s	° ′ ″
May 2	21 38 42·77	32 4 31·5	May 9	1 42 25·77	68 25 10·0
	21 39 0·60	32 24 23·3		1 51 33·52	68 11 54·9
	21 40 9·07	32 4 16·2	12	4 34 48·07	66 15 9·2
	21 41 44·27	32 4 54·3		4 36 37·72	66 13 18·9
	21 43 51·15	31 56 25·1		4 38 17·32	65 43 58·4
	21 44 10·95	31 57 6·8		4 38 47·44	66 4 20·5
	21 44 13·78	31 56 19·6		4 39 9·67	66 10 11·4
3	21 45 38·47	38 13 57·0	13	5 8 47·28	65 58 4·8
	21 45 50·96	38 12 2·6		5 10 21·86	63 55 12·0
	21 46 24·37	38 6 48·8		5 11 31·31	63 55 6·2
	21 51 39·57	38 11 36·6		5 15 48·57	63 49 4·9
8	0 35 9·94	66 11 14·2	14	5 28 28·05	61 30 43·6
	0 35 26·27	66 18 53·9		5 30 0·16	61 23 26·2
	0 45 2·56	66 31 45·1		5 35 14·07	61 17 28·3
	0 48 53·89	66 36 19·2			